EQUIPMENT LIST (CONT.) SEQUENCE OF OPERATION SHEET PROJECT DESCRIPTION EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. MD 119 (GREAT SENECA HWY) TRAFFIC OPERATIONS SECTION RUNS IN AN I. GENERAL ITEM DIVISION OF TRAFFIC ENGINEERING NORTH-SOUTH DESCRIPTION QUANTITY MONTGOMERY COUNTY, MARYLAND DIRECTION This project involves the reconstruction of an existing span wire Traffic Control 6 C.Y. Test pit excavation. Signal with interconnect at the intersection of MD 119 (Great Seneca Hwy) and MD 119 (GREAT SENECA HIGHWAY) AT NO._____ Muddy Branch Road in Montgomery County. The existing 50-pair interconnect cable from Sam Eig Hwy and from Kentlands Blvd shall be rerouted thru proposed conduit to the INTERSECTION: 120 S.F. MUDDY BRANCH ROAD 4" concrete sidewalk, mix No. 2. PHASING proposed splice box. A new 12-pair cable shall then be routed from the splice box to 120 S.F. Remove sidewalk. Ø LILLI Ø6 PED SIGNAL HEAD INDICATIONS the new base mounted controller. Video detection shall be used for all directions. MD 119 (Great Seneca Hwy) is assumed to run an north-south direction. 23 C.Y. Concrete foundation. SIGNAL NO. 1,2,5,6,9 3,4,7,8,11, 17-20 12,15,16 polyvinyl chloride electrical conduit 1200 L.F. (Schedule 80) (trenched). TOTAL: II. INTERSECTION OPERATION 4" polyvinyl chloride electrical conduit 80 L.F. 1. The intersection is to operate in a NEMA eight-phase, semi-actuated mode, with LEGEND (Schedule 80) (trenched). the MD 119 (Great Seneca Hwy) approaches running concurrently. Exclusive left turn phases shall be provided for both approaches of MD 119 (Great Seneca Hwy). OPTICALLY 4" polyvinyl chloride electrical conduit 1265 L.F. Pedestrian phases with pushbutton actuation shall be provided across both legs of J L I M I T E D (Schedule 80) (pushed). (To be bored). MD 119 (Great Seneca Hwy). The pedestrian phase across east leg of Muddy Branch Road shall be on recall. Exclusive left turn phases shall be provided Ø3 R RED Control and distribution equipment. 1 Each Y YELLOW for both approaches of Muddy Branch Road. The Muddy Branch Road approaches shall also run concurrently. Ground rod, 3/4" diameter x 10' length with G GREEN 5 Each (4G) "or12 **←** ARROW 2. A full-traffic-actuated, eight-phase controller with L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be F FLASHING 12" 12-pair telemetry cable - jelly-filled 185 L.F. installed at this intersection. (underground). Canoga 4-conductor electrical cable 1135 L.F. SEQUENCE OF OPERATION III. SPECIAL NOTES Ø8 (No. 14 A.W.G.) (shielded). 1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, 8064 2-conductor electrical cable (No. 14 A.W.G.). 760 L.F. to the appropriate terminals and shall properly label each cable. 8065 3-conductor electrical cable (No. 14 A.W.G.). 220 L.F. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and 5-conductor electrical cable (No. 14 A.W.G.). 4450 L.F. properly tag the cable. Contact Mr. Bob Gonzales at (240) 777-8761 seventy-two hours in 5 | 4R- | 4R advance of intended work. 2-conductor electrical cable (No. 12 A.W.G.) 470 L.F. | 4R- | 4Rcopper type TC. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility 1-conductor electrical cable (No. 6 A.W.G.) 775 L.F. prior to construction so that all utilities may be located in the field. If the Contractor stranded bare copper ground wire. perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved. 8095 20' lighting arm. 2 Each 250W-HPS luminaire. 2 Each 1 Each weatherhead. **EQUIPMENT LIST** Traffic signal handbox (pullbox). 14 Each EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION AND INSTALLED BY THE CONTRACTOR. Cut mast arm to needed length. 2 Each Removal and salvage of signs less than 50 S.F. 5 Each DESCRIPTION QUANTITY Removal of electrical service. 1 Each R10-4(1) Pedestrian education sign, (9" x 12") 1 Each pole mounted. Top section of sign to be left blank. Removal of span and associated wiring. 4 Each 8088 D3-2 "Great Seneca HWY" sign (variable x 18") 2 Each Removal and salvage of strain pole including 4 Each mast arm mounted. PHASE 2 & 6 | ALL | 3 & 7 | RED | 3 & 8 | RED | 4 & 7 | RED | 4 & 8 | RED | 1 & 5 | RED | 1 & 6 | RED | 2 & 5 | RED | D3-2 "Muddy Branch RD " sign (variable x 18") 2 Each Removal and salvage of cabinet, base-mounted. 1 Each mast arm mounted. NOTES: Removal of handbox. 13 Each R3-5L "LEFT TURN ONLY" sign, (30" x 36") 5 Each Ø1 🖌 mast arm mounted. Removal and salvage of traffic signal head. 14 Each 8103 27' steel pole with a 70' mast arm. (Note: Anchor 1 Each SUBMITTED: APPROVED: CHECKED: Removal and salvage of pedestrian signal 6 Each bolts will be 2" x 90".) IN SERVICE BY: TIME: a IIII Signal technician labor to reroute existing 12 HRS 8103 27' steel pole with a 70' (cut to 64') mast arm. (Note: 2 Each underground interconnect cable and removal Anchor bolts will be 2" x 90".) of lighting arm and video detector cameras **4**Ø5 WIRING DIAGRAM 27' steel pole with a 60' mast arm. (Note: Anchor bolts will be 2" x 90".) 1 Each A,B,C,N,R,W, UNDERGROUND I/C NORTH TO KENTLANDS BLVD / Z,BB,CC,DD,GG HH · D.E.M.U.X.Z.HH 10' breakaway pedestal pole with transformer Ø2 PED T TT 1 Each : = = = = = = = = = = 12", one-way, three-section (R,Y,G) traffic 8 Each signal head with adjustable bracket for mast arm* EXISTING 50-PAIR N → N mounting and tunnel visors. I/C SOUTH TO A.B.C.D.E.M.N.R. U.W.X.Z.DD.GG.HH SAM EIG HWY 8122 12", one-way, three-section (RA,YA,GA) traffic 9 Each signal head with adjustable bracket for mast arm* --- A.B.C.W WIRING KEY mounting and tunnel visors. D,E,M,U,X, C Z,BB,HH 8124 12", one-way, two-section (DW,W) symbolic 7 Each pedestrian signal head with adjustable bracket AA - EXISTING 50-PAIR VOICE GRADE INTERCONNECT CABLE for pole mounting and cutaway visors. ---- A • B • C • W 5-CONDUCTOR ELECTRICAL 12", one-way, two-section (DW,W) symbolic pedestrian signal head having proper post top BB) REROUTED 50-PAIR VOICE GRADE 1 Each CABLE (NO. 14 A.W.G) CC ∫ INTERCONNECT CABLE adapter for pedestal mounting and cutaway --- A,B,W DD - 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED) Pedestrian pushbutton and pedestrian education 4 Each F,G,Y---EE - 3-CONDUCTOR ELECTRICAL R10-4(1) sign. (Note: Sign to read "PUSH BUTTON TO CROSS GREAT SENECA A.B.C.D.E.M.N.R. CABLE (NO. 4 A.W.G.) U.W.X.Z.DD.GG.HH P 3 - CONDUCTOR ELECTRICAL F,G,H,J,K,L, O,Q,T,V,Y,Z,FF Q J CABLE (NO. 14 A.W.G) FF \ 2-CONDUCTOR TRAY F,G,H,Y----8128 Splice cabinet with telemetry equipment, 1 Each GG J CABLE (NO. 12 A.W.G) лJ•K•V 2-CONDUCTOR ELECTRICAL pole mounted. J,K,L,V CABLE (NO. 14 A.W.G) PS - PROPOSED OVERHEAD SERVICE Eight-phase, full-traffic-actuated, solid state digital 1 Each TO BE INSTALLED BY PEPCO A,B,C,D,E,F,G,H,J,K, controller with L.A.U., L.A.U. Panel and housed in a NEMA size "6" base-mounted cabinet. **∼** F•G•H•Υ L,M,N,O,P,Q,R,S,T,U,HH CANOGA 4-CONDUCTOR ELECTRICAL The contact persons for District #3 (Montgomery County) + - GROUND ROD CABLE (NO. 14 A.W.G.) SHIELDED are as follows: COAXIAL CABLE (INCIDENTAL WITH Video detector camera w/ coaxial cable 4 Each F,G,H,O PURCHASE OF CAMERA) (to be installed by County Forces) T,Y,Z,FI V,W,X,Y,Z,DD,FF,GG-GUIDE SHIELD ASSEMBLY (48"x75") pole mounted. M3-4 "NORTH"(30"X15") ----- 1 Each Mr. Lee Starkloff Z - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) J,K,L,Q,V,Z F,G,H,O, Assistant District Engineer - Traffic F,G,H,O, T,Y,Z,FF Phone: (301 513-7318 T,Y,Z,FF M1-5 "MD 119"(48"X36") M6-1 "left arrow"(30"X24") Mr. Raleigh Mediey MARYLAND DOT - STATE HIGHWAY ADMINISTRATION GUIDE SHIELD ASSEMBLY (30"x51") pole mounted. M3-3 "SOUTH"(24"X12") Assistant District Engineer - Maintenance 1 Each Phone: (301) 513-7304 Office of Traffic & Safety M1-5 "MD 119"(30"X24") Mr. Augie Rebish TRAFFIC ENGINEERING DESIGN DIVISION M6-1 "right arrow"(21"X15") District Engineer - Utility Phone: (301) 513-7350 GUIDE SHIELD ASSEMBLY (48"x75") pole mounted. M3-3 "SOUTH"(30"X15") 1 Each MD 119 (GREAT SENECA HWY) AT Mr. Richard L. Daff, Sr. MUDDY BRANCH ROAD M1-5 "MD 119"(48"X36" Chief, Traffic Operations Division "left arrow "(30"X24") Phone: (410) 787-7630 STREET TRAFFIC STUDIES, LTD. GUIDE SHIELD ASSEMBLY 1 Each DRAWN BY: ROB CICCHINI .A.P. NO. 400 Crain Hwy.,N.W. Gien Burnie,ND 21061 (30"x51") pole mounted. M3-4 "NORTH"(24"X12") 4207A HECKED BY: R ZACHERL S.H.A. NO. SHEET NO. Ph (410) 590-5500 M1-5 "MD 119"(30"X24") SCALE: N/A COUNTY: MONTGOMERY T.I.M.S. NO Fax (410) 590-663 "right arrow "(21"X15") 3 OF 3 15011900.80 9/30/02 F531 4050BGI.DGN LOG MILE DATE: